## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of producing a three-dimensional structure, comprising the steps of:

providing a needle-shaped nozzle body having a fine inside diameter at a tip thereof, the nozzle supplied with a fluid;

arranging a substrate close to a tip of the nozzle to be close to a substrate;

ejecting a fluid droplet having an ultra-fine diameter from the tip of the nozzle toward a surface of the substrate by applying a voltage having a prescribed waveform to the needle-shaped nozzle body via the electrode so as to make the droplet fly and land on the substrate, and thereby the droplet being dried during flight to be a solidified substance at after landing on the substrate; and

continually ejecting subsequent droplets by applying the prescribed waveform voltage to the nozzle for the droplets being stacked on said solidified substance so as to form a grown threedimensional structure.

## 2. (Canceled)

- 3. (Previously Presented) The method of producing a three-dimensional structure according to claim 1, wherein an electric line of force is attracted to the top of the solidified substance of the droplet, and wherein the three-dimensional structure is grown by stacking the subsequent flying droplet guided along the electric line of force onto the top of the solidified substance.
- 4. (Previously Presented) The method of producing a three-dimensional structure according to claim 1, wherein a cross-sectional diameter of the three-dimensional structure is controlled by a volatile property of the droplet ejected from the needle-shaped fluid- ejection body.
- 5. (Previously Presented) The method of producing a three-dimensional structure according to claim 1, wherein a temperature of the substrate is controlled in that the previously

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landed droplet on the substrate is volatilized to be hard enough for the subsequent droplet

stacked thereon.

6. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a surface temperature of the substrate is controlled by at least one

heating means selected from the group consisting of a Peltier element, an electric heater, an

infrared heater, a heater using fluid such as an oil heater, a silicon rubber heater, and a

thermistor, that is fixed to the substrate or a substrate supporting body.

7. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a surface temperature of the substrate is controlled in a range of

from room temperature to 100°C.

8. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a solution containing metal particulates.

9. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a polymer solution.

10. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a solution containing ultra-fine ceramic particles.

11. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a sol-gel solution of ceramics.

12. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a low molecular weight compound solution.

13. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the fluid is a fluid containing at least one solution selected from

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the group consisting of a solution containing metal particulates, a polymer solution, a solution

containing ultra-fine ceramic particles, a sol-gel solution of ceramics, and a low-molecular

weight compound solution.

14. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a diameter of the ejected droplet is 15 µm or less.

15. (Original) The method of producing a three-dimensional structure according to claim

14, wherein a diameter of the droplet is 5 µm or less.

16. (Original) The method of producing a three-dimensional structure according to claim

14, wherein a diameter of the droplet is 3  $\mu$ m or less.

17. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a time required for the droplet to be dried and solidified is 2

seconds or less.

18. (Original) The method of producing a three-dimensional structure according to claim

17, wherein the time required for the droplet to be dried and solidified is 1 second or less.

19. (Original) The method of producing a three-dimensional structure according to claim

17, wherein the time required for the droplet to be dried and solidified is 0.1 second or less.

20. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a flying speed of the droplet is 4 m/sec or more.

21. (Original) The method of producing a three-dimensional structure according to claim

20, wherein the flying speed is 6 m/sec or more.

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22. (Original) The method of producing a three-dimensional structure according to claim

20, wherein the flying speed is 10 m/sec or more.

23. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the steps are conducted in an atmosphere having a vapor pressure

of the fluid lower than a saturated vapor pressure of the fluid.

24. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein a dielectric constant of the fluid to be ejected is 1 or more.

25 - 31. (Canceled)

32. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the nozzle inside diameter is 0.01 μm to 15μm.

33. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the nozzle inside diameter is 0.01 µm to 10µm.

34. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the nozzle inside diameter is 0.01 µm to 8µm,

35. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, wherein the needle-shaped nozzle is a micro-capillary tube.

36. (Previously Presented) The method of producing a three-dimensional structure

according to claim 1, further comprising an electrode within the nozzle.

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